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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,256	01/26/2004	Srikanth Varanasi	1-15610	9581
1678	7590 09/01/2005		EXAMINER	
MARSHALL & MELHORN			CHEN, BRET P	
FOUR SEAGATE, EIGHT FLOOR TOLEDO, OH 43604			ART UNIT	PAPER NUMBER
102220, 01	- 1,500		1762	
			DATE MAILED: 09/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	A 11 41 A1	A 11 14 1				
	Application No.	Applicant(s)				
Office Action Summany	10/765,256	VARANASI ET AL.				
Office Action Summary	Examiner	Art Unit				
	B. Chen	1762				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11 A	uauct 1050					
	action is non-final.					
<u>'</u>	·					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.						
4a) Of the above claim(s) <u>21-26</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · ·					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) Online of References Cited (PTO-892) Online of Draftsperson's Patent Drawing Review (PTO-948) Online of Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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DETAILED ACTION

Claims 1-26 are pending in this application.

Election/Restrictions

Applicant's election without traverse of claims 1-20 in the reply filed on 8/11/05 is acknowledged.

Claims 21-26 have been withdrawn from consideration as being directed to a nonelected invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 16, 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Stevens et al. (5,686,178). Stevens discloses a method of forming an oxidizable metal coating on a non-conductive substrate followed by an oxidation step (col.3 lines 21-24) in which the substrate can be glass (col.3 lines 47-48) and the oxidizable metal can be iron (col.4 line 18-19). In one embodiment, iron is deposited by using a CVD iron precursor such as ferrocene in a hydrogen carrier gas (col.16 lines 38-46). A solvent can be utilized (col.17 lines 14-42). The substrate temperature can be 90-800oC (col.16 lines 5-9) and the coating thickness can be 1-10 micron or 0.002 to 0.25 microns depending on the final product (col.15 lines 18-39).

Application/Control Number: 10/765,256

Art Unit: 1762

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-15, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Stevens et al. (5,686,178). Stevens discloses a method of forming an oxidizable metal coating
on a non-conductive substrate followed by an oxidation step (col.3 lines 21-24) in which the
substrate can be glass (col.3 lines 47-48) and the oxidizable metal can be iron (col.4 line 18-19).

In one embodiment, iron is deposited by using a CVD iron precursor such as ferrocene in a
hydrogen carrier gas (col.16 lines 38-46). A solvent can be utilized (col.17 lines 14-42). The
substrate temperature can be 90-800oC (col.16 lines 5-9) and the coating thickness can be 1-10
micron or 0.002 to 0.25 microns depending on the final product (col.15 lines 18-39). However,
the reference remains silent as to directing a ferrocene and an oxidant along the surface to be
coated.

It is noted that Stevens fairly teaches of utilizing ferrocene in a CVD process. One skilled in the art would realize that the ferrocene has to be near the substrate to form the coating and that directing the precursor to the substrate surface produces a more efficient reaction.

Art Unit: 1762

Hence, it would have been obvious to the skilled artisan to direct the reactants to the substrate surface with the expectations of obtaining a more cost effective deposition.

The limitations of claims 2-15, 17 have been addressed above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bc 8/30/05

BRET CHEN
PRIMARY EXAMINER